Amendments to the Claims

The following listing of claims replaces all prior versions of the claims and all prior listings of the claims in the present application.

1-44. (canceled)

45. (new) A tyre for a vehicle wheel, comprising:

at least one structural element including a crosslinked elastomeric material obtained by crosslinking an elastomeric composition comprising:

at least one diene elastomeric polymer;

at least one reinforcing filler;

from 0.05 phr to 10 phr of zinc oxide;

from 0.1 phr to 20 phr of at least one fatty acid amide; and

from 0.1 phr to 15 phr of at least one zinc salt of a carboxylic acid of formula R-COOH, wherein R is selected from linear or branched C_1 - C_{24} alkyl groups,

linear or branched C_2 - C_{24} alkenyl groups, C_5 - C_{24} cycloalkyl groups, C_6 -

C₂₄ aryl groups, C₇-C₂₄ alkylaryl or arylalkyl groups.

46. (new) The tyre of claim 45, comprising:

a carcass structure;

a belt structure applied in a circumferentially external position relative to the carcass structure;

a tread band superimposed circumferentially on the belt structure; and
a pair of sidewalls applied laterally on opposite sides relative to the carcass structure;
wherein the carcass structure comprises at least one carcass ply,
wherein the at least one carcass ply is shaped in a substantially toroidal configuration,
wherein opposite lateral edges of the carcass structure are associated with respective bead
wires,

wherein each bead wire is enclosed in a respective bead,

wherein the belt structure comprises at least one belt strip, and

wherein the at least one structural element including the crosslinked elastomeric material is the tread band.

- 47. (new) The tyre of claim 45, wherein the elastomeric composition comprises from 0.1 phr to 6.0 phr of the zinc oxide.
- 48. (new) The tyre of claim 45, wherein the elastomeric composition comprises from 0.5 phr to 5.0 phr of the zinc oxide.
- 49. (new) The tyre of claim 45, wherein the elastomeric composition comprises from 0.5 phr to 10 phr of the at least one fatty acid amide.
- 50. (new) The tyre of claim 45, wherein the elastomeric composition comprises from 2.0 phr to 6.0 phr of the at least one fatty acid amide.

- 51. (new) The tyre of claim 45, wherein the elastomeric composition comprises from 0.5 phr to 10 phr of the at least one zinc salt of a carboxylic acid.
- 52. (new) The tyre of claim 45, wherein the elastomeric composition comprises from 1.0 phr to 5.0 phr of the at least one zinc salt of a carboxylic acid.
- 53. (new) The tyre of claim 45, wherein the at least one diene elastomeric polymer has a glass transition temperature (T_g) below 20° C.
- 54. (new) The tyre of claim 45, wherein the at least one diene elastomeric polymer comprises one or more of: cis-1,4-polyisoprene; 3,4-polyisoprene; polybutadiene; optionally halogenated isoprene/isobutene copolymers; 1,3-butadiene/acrylonitrile copolymers; styrene/1,3-butadiene copolymers; styrene/isoprene/1,3-butadiene copolymers; and styrene/1,3-butadiene/acrylonitrile copolymers.
- 55. (new) The tyre of claim 45, wherein the elastomeric composition further comprises at least one elastomeric polymer of one or more monoolefins with an olefinic comonomer or derivatives thereof.
- 56. (new) The tyre of claim 54, wherein the at least one elastomeric polymer of one or more monoolefins comprises one or more of: ethylene/propylene copolymers (EPR) or

ethylene/propylene/diene copolymers (EPDM); polyisobutene; butyl rubbers; and halobutyl rubbers.

- 57. (new) The tyre of claim 45, wherein the at least one reinforcing filler comprises one or more of: carbon black; silica; alumina; aluminosilicates; calcium carbonate; and kaolin.
- 58. (new) The tyre of claim 45, wherein the at least one reinforcing filler comprises carbon black.
- 59. (new) The tyre of claim 45, wherein the at least one reinforcing filler comprises silica.
- 60. (new) The tyre of claim 45, wherein the elastomeric composition comprises from 0.1 phr to 120 phr of the at least one reinforcing filler.
- 61. (new) The tyre of claim 45, wherein the elastomeric composition comprises from 20 phr to 90 phr of the at least one reinforcing filler.
- 62. (new) The tyre of claim 45, wherein the at least one fatty acid amide is selected from compounds having the following formulae (II) or (III):

$$\begin{array}{ccc}
O & H \\
\parallel & | \\
R_1 - C - N - R_2
\end{array}$$
(II)

wherein R_1 and R_4 , which may be identical or different from each other, are selected from linear or branched C_1 - C_{24} alkyl groups, linear or branched C_2 - C_{24} alkenyl groups, C_5 - C_{24} cycloalkyl groups;

wherein R₃ is a linear or branched C₁-C₁₀ alkylene group; and

wherein R₂ is hydrogen or is selected from linear or branched C₁-C₂₄ alkyl groups, linear or branched C₂-C₂₄ alkenyl groups, or C₅-C₂₄ cycloalkyl groups.

- 63. (new) The tyre of claim 62, wherein the at least one fatty acid amide comprises one or more of: acetamide, propionamide, n-butyramide, n-valeramide, n-caproamide, stearamide, lauroylamide, miristic amide, arachidamide, behenamide, ethylene-bis-stearamide, and ethylene-bis-oleamide.
- 64. (new) The tyre of claim 62, wherein the at least one fatty acid amide comprises stearamide.
- 65. (new) The tyre of claim 45, wherein the carboxylic acid of formula R-COOH comprises one or more of: C₈-C₁₀ coconout acid; stearic acid; lauric acid; oleic acid; octanoic

acid; myristic acid; palmitic acid; palmitoleic acid; linoleic acid; benzoic acid; chlorobenzoic acid; methylbenzoic acid; and naphthyl acid.

66. (new) A tyre tread band including a crosslinkable elastomeric composition, the composition comprising:

at least one diene elastomeric polymer;

at least one reinforcing filler;

from 0.05 phr to 10 phr of zinc oxide;

from 0.1 phr to 20 phr of at least one fatty acid amide; and

from 0.1 phr to 15 phr of at least one zinc salt of a carboxylic acid of formula R-COOH, wherein R is selected from linear or branched C_1 - C_{24} alkyl groups, linear or branched C_2 - C_{24} alkenyl groups, C_5 - C_{24} cycloalkyl groups, C_6 - C_{24} aryl groups, C_7 - C_{24} alkylaryl or arylalkyl groups.

- 67. (new) The tyre tread band of claim 66, wherein the elastomeric composition comprises from 0.1 phr to 6.0 phr of the zinc oxide.
- 68. (new) The tyre tread band of claim 66, wherein the zinc oxide (c) is added to the elastomeric composition in an amount of from 0.5 phr to 5.0 phr.
- 69. (new) The tyre tread band of claim 66, wherein the elastomeric composition comprises from 0.5 phr to 10 phr of the at least one fatty acid amide.

- 70. (new) The tyre tread band of claim 66, wherein the elastomeric composition comprises from 2.0 phr to 6.0 phr of the at least one fatty acid amide.
- 71. (new) The tyre tread band of claim 66, wherein the elastomeric composition comprises from 0.5 phr to 10 phr of the at least one zinc salt of a carboxylic acid.
- 72. (new) The tyre tread band of claim 66, wherein the elastomeric composition comprises from 1.0 phr to 5.0 phr of the at least one zinc salt of a carboxylic acid.
- 73. (new) The tyre tread band of claim 66, wherein the at least one diene elastomeric polymer comprises one or more of: cis-1,4-polyisoprene; 3,4-polyisoprene; polybutadiene; optionally halogenated isoprene/isobutene copolymers; 1,3-butadiene/acrylonitrile copolymers; styrene/1,3-butadiene copolymers; styrene/isoprene/1,3-butadiene copolymers; and styrene/1,3-butadiene/acrylonitrile copolymers.
- 74. (new) The tyre tread band of claim 66, wherein the at least one reinforcing filler comprises one or more of: carbon black; silica; alumina; aluminosilicates; calcium carbonate; and kaolin.
- 75. (new) The tyre tread band of claim 66, wherein the at least one fatty acid amide is selected from compounds having the following formulae (II) or (III):

$$\begin{array}{c|cccc}
O & H \\
\parallel & | \\
R_1 - C - N - R_2
\end{array}$$
 (II)

wherein R_1 and R_4 , which may be identical or different from each other, are selected from linear or branched C_1 - C_{24} alkyl groups, linear or branched C_2 - C_{24} alkenyl groups, C_5 - C_{24} cycloalkyl groups;

wherein R₃ is a linear or branched C₁-C₁₀ alkylene group; and

wherein R_2 is hydrogen or is selected from linear or branched C_1 - C_{24} alkyl groups, linear or branched C_2 - C_{24} alkenyl groups, or C_5 - C_{24} cycloalkyl groups.

76. (new) The tyre tread band of claim 66, wherein the carboxylic acid of formula R-COOH comprises one or more of: C₈-C₁₀ coconout acid; stearic acid; lauric acid; oleic acid; octanoic acid; myristic acid; palmitic acid; palmitoleic acid; linoleic acid; benzoic acid; chlorobenzoic acid; methylbenzoic acid; and naphthyl acid.

77. (new) An elastomeric composition, comprising:

at least one diene elastomeric polymer;

at least one reinforcing filler;

from 0.05 phr to 10 phr of zinc oxide;

from 0.1 phr to 20 phr of at least one fatty acid amide; and

from 0.1 phr to 15 phr of at least one zinc salt of a carboxylic acid of formula R-COOH, wherein R is selected from linear or branched C_1 - C_{24} alkyl groups, linear or branched C_2 - C_{24} alkenyl groups, C_5 - C_{24} cycloalkyl groups, C_6 - C_{24} aryl groups, C_7 - C_{24} alkylaryl or arylalkyl groups.

- 78. (new) The elastomeric composition of claim 77, comprising from 0.1 phr to 6.0 phr of the zinc oxide.
- 79. (new) The elastomeric composition of claim 77, comprising from 0.5 phr to 5.0 phr of the zinc oxide.
- 80. (new) The elastomeric composition of claim 77, comprising from 0.5 phr to 10 phr of the at least one fatty acid amide.
- 81. (new) The elastomeric composition of claim 77, comprising from 2.0 phr to 6.0 phr of the at least one fatty acid amide.
- 82. (new) The elastomeric composition of claim 77, comprising from 0.5 phr to 10 phr of the at least one zinc salt of a carboxylic acid.
- 83. (new) The elastomeric composition of claim 77, comprising from 1.0 phr to 5.0 phr of the at least one zinc salt of a carboxylic acid.

- 84. (new) The elastomeric composition of claim 77, wherein the at least one diene elastomeric polymer comprises one or more of: cis-1,4-polyisoprene; 3,4-polyisoprene; polybutadiene; optionally halogenated isoprene/isobutene copolymers; 1,3-butadiene/acrylonitrile copolymers; styrene/1,3-butadiene copolymers; and styrene/1,3-butadiene/acrylonitrile copolymers.
- 85. (new) The elastomeric composition of claim 77, wherein the at least one reinforcing filler comprises one or more of: carbon black; silica; alumina; aluminosilicates; calcium carbonate; and kaolin.
- 86. (new) The elastomeric composition of claim 77, wherein the at least one fatty acid amide is selected from compounds having the following formulae (II) or (III):

$$\begin{array}{c|cccc}
O & H \\
\parallel & | \\
R_1 - C - N - R_2
\end{array}$$
 (II)

wherein R_1 and R_4 , which may be identical or different from each other, are selected from linear or branched C_1 - C_{24} alkyl groups, linear or branched C_2 - C_{24} alkenyl groups, C_5 - C_{24} cycloalkyl groups;

wherein R₃ is a linear or branched C₁-C₁₀ alkylene group; and

wherein R_2 is hydrogen or is selected from linear or branched C_1 - C_{24} alkyl groups, linear or branched C_2 - C_{24} alkenyl groups, or C_5 - C_{24} cycloalkyl groups.

87. (new) The elastomeric composition of claim 77, wherein the carboxylic acid of formula R-COOH comprises one or more of: C₈-C₁₀ coconout acid; stearic acid; lauric acid; oleic acid; octanoic acid; myristic acid; palmitic acid; palmitoleic acid; linoleic acid; benzoic acid; chlorobenzoic acid; methylbenzoic acid; and naphthyl acid.

88. (new) A crosslinked elastomeric manufactured product obtained by crosslinking the elastomeric composition of claim 77.